

TECHNICAL INFOSHEET

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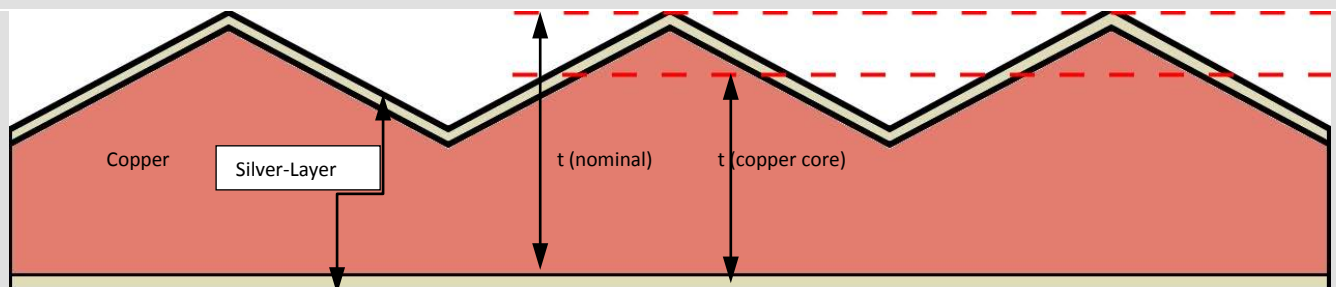
Business Unit: Metal Foils

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LHS silvered (Light Harvesting String)

LHS is a composite material of copper coated with electro-deposited silver on both sides.

composition of material:



Schematic cross-section of LHS-Strip

silver layer	composition: 99,99% Ag thickness: 0,3 – 1,2 μm (depending on side)
copper core layer	ETP-Cu acc. to DIN EN 1976; 99.9% Cu incl. Ag
application	Interconnecting strings for solar cells / modules, ideal for adhesive solutions

physical

properties

(design values only,
will not be certified)

	metric units
density	8,948 g/cm ³
electrical conductivity of copper core	100 % IACS

reflection measurement

Our product is tested with a laser beam at 430-640 nm. Relative reflection rate is measured "recovery ratio (R)"
Acceptance level: $R > 75\%$

This test procedure has been developed in house. A transfer of our test results to other materials is not recommended.

**recommendations
for processing**

- Do not remove protective wrapping until use
- Avoid contact with sulphur containing chemicals as they will darken the silver
- Profiled silver side is sensitive to scratches. Avoid scratches as they will reduce reflection rate.

**manufacturing
program of strip**

thickness of strip [mm]	0.1 – 0.2 mm Measured thickness deviates by +0.019 mm from nominal thickness due to the embossed surface structure. Nominal thickness is obtained by assuming a rectangular cross section.
width of strip [mm]	1.0 – 5.0 mm (<i>Standard 2.0 mm and 2.4 mm</i>)
thickness tolerance	±10 % on total thickness;
width tolerance	+/- 0.05 mm
preferred spool types [mm]	HKV 160; HKV 125

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